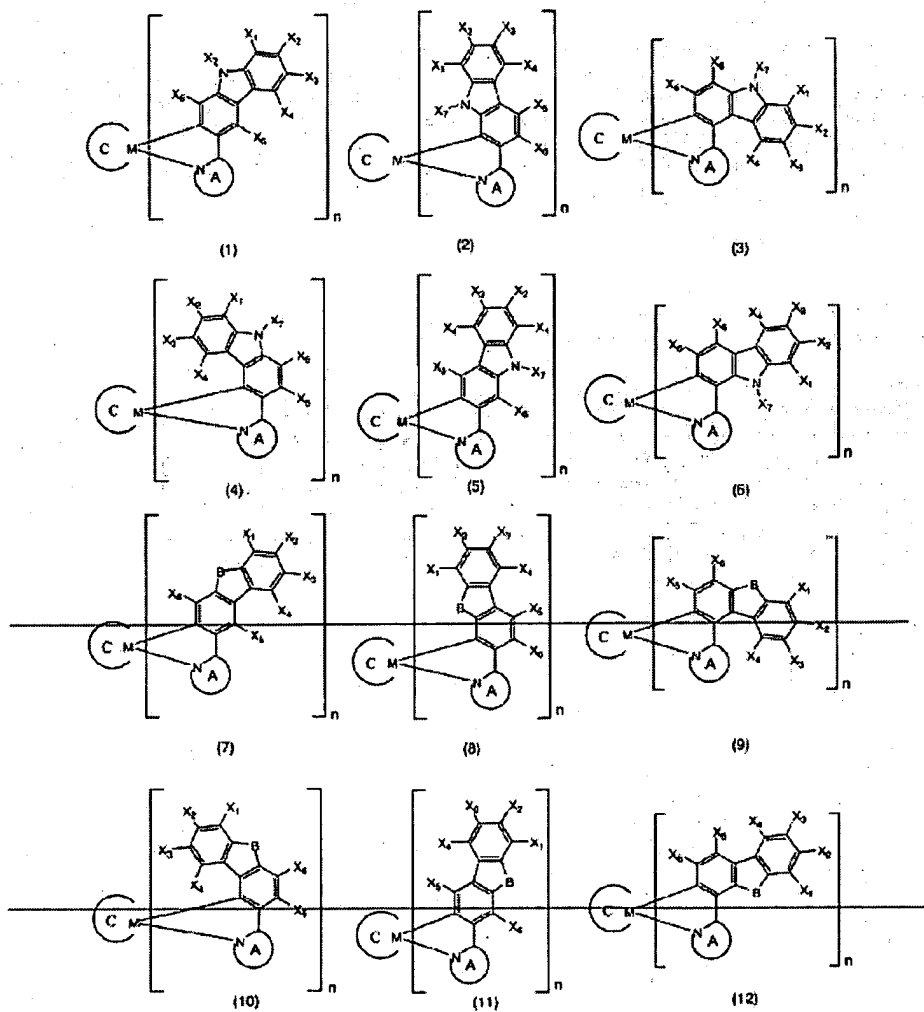


AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1. (Currently Amended): A metal coordination compound-containing copolymer comprising:

a metal coordination compound monomer unit represented by any one of Formulae (1) to ~~(6)~~(12),



B : >O, >S, >C=O, >SO₂, >CR₂

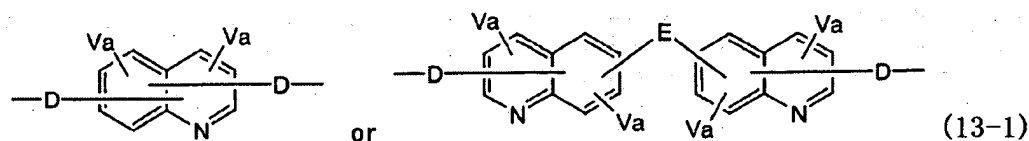
(in the formulae, M is Ir, Rh, Ru, Os, Pd, or Pt, and n is 1 or 2; ring A is a cyclic compound containing a nitrogen atom bonded to M; X₁ to X₇ and R are independently substituents selected from the group consisting of -R¹, -OR², -SR³, -OCOR⁴, -COOR⁵, -SiR⁶R⁷R⁸, and -NR⁹R¹⁰ (here, R¹ to R¹⁰ are a hydrogen atom, a halogen atom, a cyano group, a nitro group, a C1 to C22 straight-chain, cyclic, or branched alkyl group or a corresponding halogen-substituted alkyl group in which a part or all of the hydrogen atoms are substituted by a halogen atom, a C6 to C30 aryl group, a C2 to C30 heteroaryl group, or a C7 to C30 aralkyl group, or a corresponding halogen-substituted aryl group, halogen-substituted heteroaryl group, or halogen-substituted aralkyl group, in which a part or all of the hydrogen atoms are substituted by a halogen atom, and R¹ to R¹⁰ may be identical to or different from each other), X₁ to X₇ may be identical to or different from each other, and ring A may have a substituent that is the same as the groups defined by X₁ to X₇; ring C is a compound that is bonded to M and that bonds to a linking group; and ring C may have a substituent that is the same as the groups defined by X₁ to X₇); and

at least one type of monomer unit selected from the group consisting of a substituted or unsubstituted quinoline monomer unit, a substituted or unsubstituted arylene and/or heteroarylene monomer unit, a substituted or unsubstituted branched monomer unit, and a substituted or unsubstituted conjugated monomer unit.

2. (Currently Amended): The metal coordination compound-containing copolymer according to Claim 1, wherein the copolymer comprises

a metal coordination compound monomer unit represented by any one of the Formulae (1) to ~~(6)~~(12),

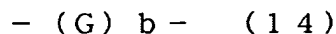
a substituted or unsubstituted quinoline monomer unit represented by Formulae (13-1),



(in the formulae, a plurality of V are independently substituents selected from the group consisting of $-R^1$, $-OR^2$, $-SR^3$, $-OCOR^4$, $-COOR^5$, and $-SiR^6R^7R^8$ (here, R^1 to R^8 are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of a quinoline residue, and each a is independently an integer of 0 to 3; D is selected from the group consisting of a single bond and arylene; and E is a divalent linking group selected from the group consisting of a single bond, $-O-$, $-S-$, $-C(O)-$, $-S(O)-$, $-S(O_2)-$, $-W-$, $-(O-W)_m-O-$ (m is an integer of 1 to 3), and $-Q-$ [in the formulae, W is a divalent group selected from the group consisting of $-Ra-$, $-Ar'-$, $-Ra-Ar'-$, $-Ra'-O-Ra'-$, $-Ra'-C(O)O-Ra'-$, $-Ra'-NHCO-Ra'-$, $-Ra-C(O)-Ra-$, $-Ar'-C(O)-Ar'-$, $-Het'-$, $-Ar'-S-Ar'-$, $-Ar'-S(O)-Ar'-$, $-Ar'-S(O_2)-Ar'-$, and $-Ar'-Q-Ar'-$; Ra is alkylene, Ar' is arylene, each Ra' is independently a group selected from the group consisting of alkylene, arylene, and a mixed alkylene/arylene group, Het' is heteroarylene, and Q is a divalent group containing a quaternary carbon]), and

a substituted or unsubstituted arylene and/or heteroarylene monomer unit,

the monomer units each being bonded via a linking group represented by Formula (14),

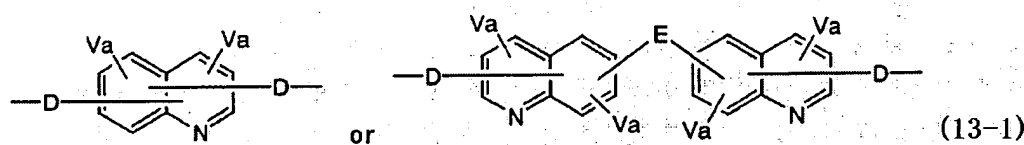


(in the formula, G is a divalent group selected from the group consisting of -O-, -R-O-R-, -S-, -NR-, -CR₂-, -SiR₂-, -SiR₂-O-SiR₂-, and -SiR₂-O-SiR₂-O-SiR₂- (here, R is a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), and b is an integer of 0 or 1).

3. (Currently Amended): The metal coordination compound-containing copolymer according to Claim 1, wherein the copolymer comprises

a metal coordination compound monomer unit represented by any one of the Formulae (1) to ~~(6)~~(12),

a substituted or unsubstituted quinoline monomer unit represented by Formulae (13-1),

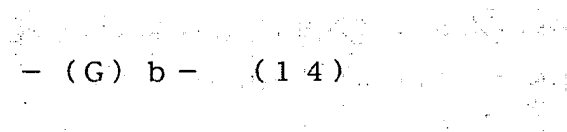


(in the formulae, a plurality of V are independently substituents selected from the group consisting of -R¹, -OR², -SR³, -OCOR⁴, -COOR⁵, and -SiR⁶R⁷R⁸ (here, R¹ to R⁸ are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of a quinoline residue, and each a is independently an integer of 0 to 3; D is selected from the group consisting of a single bond and arylene; and E is a divalent linking group selected from the group consisting of a single bond, -O-, -S-, -C(O)-, -S(O)-, -S(O₂)-, -W-, -(-O-W-)m-O- (m is an integer of 1 to 3), and -Q- [in the formulae, W is a divalent group selected from the group consisting of -Ra-, -Ar'-, -Ra-Ar'-, -Ra'-O-Ra'-, -Ra'-C(O)O-Ra'-, -Ra'-NHCO-Ra'-, -Ra-C(O)-Ra-, -Ar'-C(O)-Ar'-, -Het'-,

-Ar'-S-Ar'-, -Ar'-S(O)-Ar'-, -Ar'-S(O₂)-Ar'-, and -Ar'-Q-Ar'-; Ra is alkylene, Ar' is arylene, each Ra' is independently a group selected from the group consisting of alkylene, arylene, and a mixed alkylene/arylene group, Het' is heteroarylene, and Q is a divalent group containing a quaternary carbon]), and

a substituted or unsubstituted branched monomer unit,

the monomer units each being bonded via a linking group represented by Formula (14),

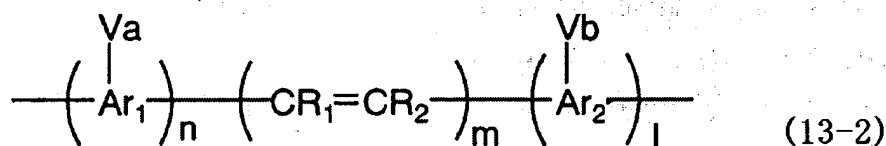


(in the formula, G is a divalent group selected from the group consisting of -O-, -R-O-R-, -S-, -NR-, -CR₂-, -SiR₂-, -SiR₂-O-SiR₂-, and -SiR₂-O-SiR₂-O-SiR₂- (here, R is a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), and b is an integer of 0 or 1).

4. (Currently Amended): The metal coordination compound-containing copolymer according to Claim 1, wherein the copolymer comprises

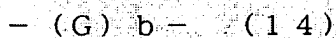
a metal coordination compound monomer unit represented by any one of the Formulae (1) to ~~(6)~~(12), and

a substituted or unsubstituted conjugated monomer unit represented by Formula (13-2),



(in the formula, Ar_1 and Ar_2 are divalent arylene and/or heteroarylene; a plurality of V , and R_1 and R_2 , are independently substituents selected from the group consisting of $-R^1$, $-OR^2$, $-SR^3$, $-OCOR^4$, $-COOR^5$, and $-SiR^6R^7R^8$ (here, R^1 to R^8 are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of an arylene or heteroarylene residue, and a and b are independently an integer of 0 or greater; R_1 and R_2 may independently be a hydrogen atom; n , m , and l are independently 0 or 1, and n , m , and l are not simultaneously 0),

the monomer units each being bonded via a linking group represented by Formula (14),

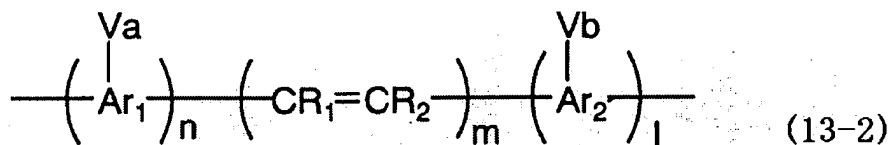


(in the formula, G is a divalent group selected from the group consisting of $-O-$, $-R-O-R-$, $-S-$, $-NR-$, $-CR_2-$, $-SiR_2-$, $-SiR_2-O-SiR_2-$, and $-SiR_2-O-SiR_2-O-SiR_2-$ (here, R is a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), and b is an integer of 0 or 1).

5. (Currently Amended): The metal coordination compound-containing copolymer according to Claim 1, wherein the copolymer comprises

a metal coordination compound monomer unit represented by any one of the Formulae (1) to ~~(6)~~(12),

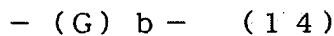
a substituted or unsubstituted conjugated monomer unit represented by Formula (13-2),



(in the formula, Ar₁ and Ar₂ are divalent arylene and/or heteroarylene; a plurality of V, and R₁ and R₂, are independently substituents selected from the group consisting of -R¹, -OR², -SR³, -OCOR⁴, -COOR⁵, and -SiR⁶R⁷R⁸ (here, R¹ to R⁸ are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of an arylene or heteroarylene residue, and a and b are independently an integer of 0 or greater; R₁ and R₂ may independently be a hydrogen atom; n, m, and l are independently 0 or 1, and n, m, and l are not simultaneously 0), and

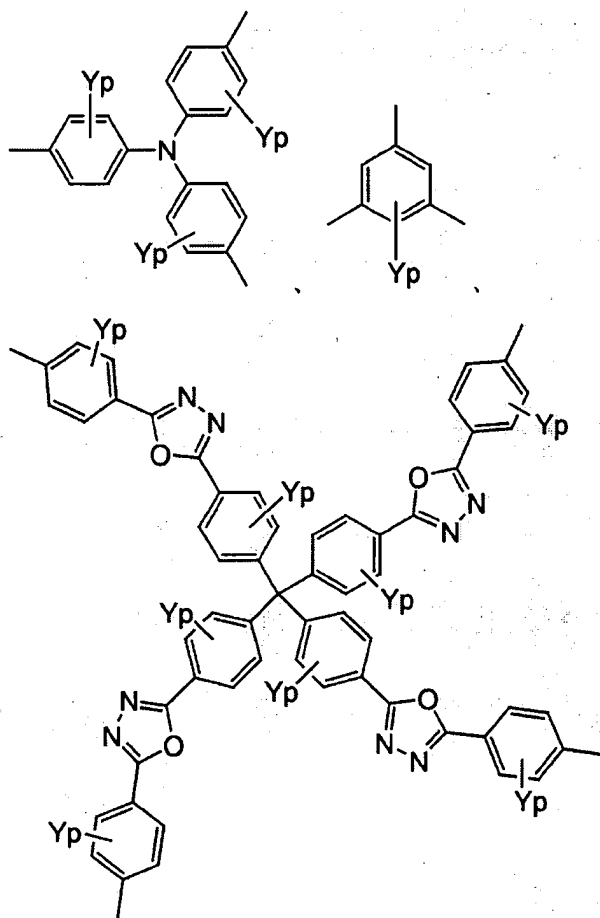
a substituted or unsubstituted branched monomer unit,

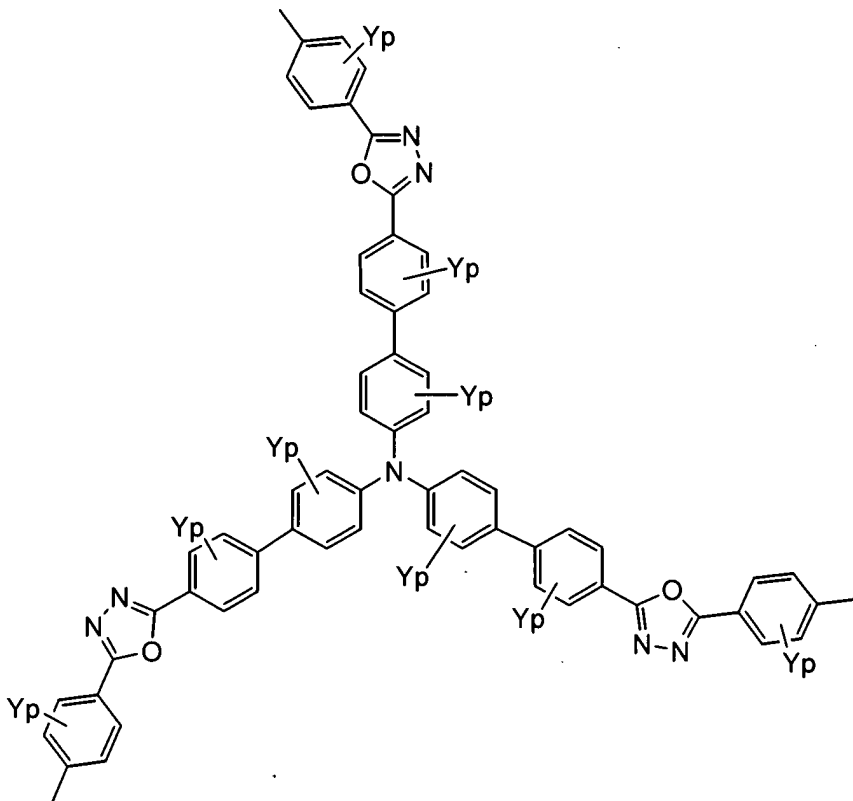
the monomer units each being bonded via a linking group represented by Formula (14),



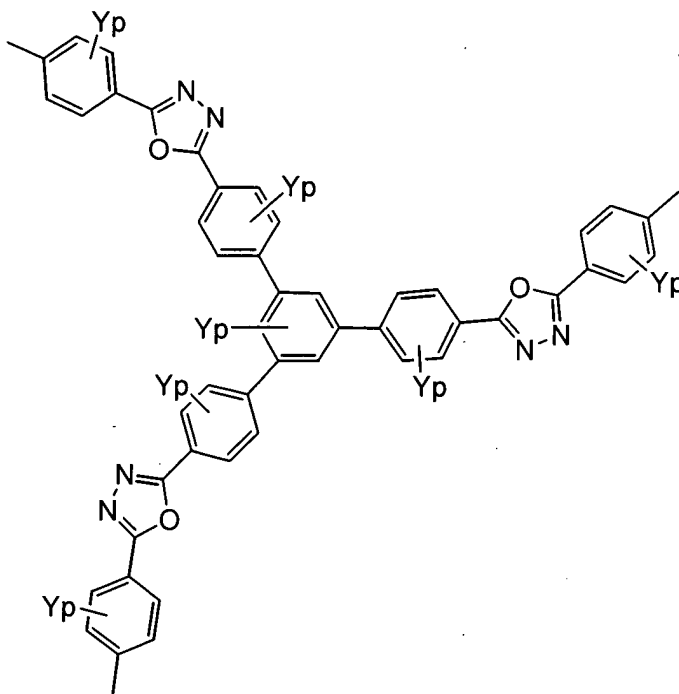
(in the formula, G is a divalent group selected from the group consisting of -O-, -R-O-R-, -S-, -NR-, -CR₂-, -SiR₂-, -SiR₂-O-SiR₂-, and -SiR₂-O-SiR₂-O-SiR₂- (here, R is a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), and b is an integer of 0 or 1).

6. (Previously presented): The metal coordination compound-containing copolymer according to Claim 1, wherein the substituted or unsubstituted branched monomer unit is a branched monomer unit selected from the group consisting of Formulae (15):





or



(in the formulae, a plurality of Y are substituents selected from the group consisting of $-R^1$, $-OR^2$, $-SR^3$, $-OCOR^4$, $-COOR^5$, and $-SiR^6R^7R^8$ (here, R^1 to R^8 are a C1 to C22 straight-chain, cyclic, or branched alkyl group, or a C2 to C30 aryl or heteroaryl group), may be identical to or different from each other, and are bonded to a substitutable position of a benzene ring having a branched skeleton, and p is an integer of 0 to 4).

7. (Withdrawn-Currently Amended): The metal coordination compound-containing copolymer according to Claim 1, wherein in the Formulae (1) to ~~(6)~~(42) ring A is pyridine, quinoline, benzoxazole, benzothiazole, benzimidazole, benzotriazole, imidazole, pyrazole, oxazole, thiazole, triazole, benzopyrazoletriazine, or isoquinoline, which may have a substituent that is the same as the groups defined by X_1 to X_7 .

8. (Withdrawn-Currently Amended): The metal coordination compound-containing copolymer according to Claim 1, wherein in the Formulae (1) to ~~(6)~~(12) at least one of X_1 to X_7 and the substituent of ring A defined as being the same as X_1 to X_7 is a fluorine atom or a trifluoromethyl group.

9. (Withdrawn-Currently Amended): The metal coordination compound-containing copolymer according to Claim 1, wherein in the Formulae Formulae (1) to ~~(6)~~(12) M is iridium.

10. (Withdrawn-Previously presented): A polymer composition comprising the metal coordination compound-containing copolymer according to Claim 1 and a conjugated or non-conjugated polymer.

11. (Withdrawn-Previously presented): An organic electroluminescent device fabricated using the metal coordination compound-containing copolymer according to Claim 1.

12. (Withdrawn-Previously presented): An organic electroluminescent device fabricated using the polymer composition according to Claim 10.